Ved Babar

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Education

Pune Institute of Computer Technology (PICT)	*Pune, India*
B.E. in Computer Engineering – CGPA: **9.5**	*Aug 2023 – Present*
Indian Institute of Technology (IIT) Madras	*Online – Remote*
B.S. in Data Science – Foundation Level (Ongoing) – CGPA: **7.83**	*2023 – Present*
Alard Public School (CBSE Board)	*Pune, India*
Higher Secondary Certificate (Class XII) – **91.4%**	*2023*
Vikhe Patil Memorial School (CBSE Board)	*Pune, India*
Secondary School Certificate (Class X) – **93%**	*2021*

Experience and Projects

Software Engineering Internship — *Pimpri, Pune*
Tata Motors — *June 2025 – Aug 2025*

- Built using Python with Tkinter for GUI, Pandas for data processing, and Matplotlib for visualization. Enabled users to search, filter, sort, and compare materials based on mechanical properties like UTS, Yield Strength, Elongation, etc.
- Implemented stress-strain curve generation for selected materials, including zoom and toolbar support. Provided export functionality to generate .inp, .bdf, and .ffj files (simulation-ready formats for tools like Abaqus, Nastran, FEMFAT).
- Included features such as dynamic tolerance-based filtering, right-click export menu, and custom material data entry with Excel persistence.

Github **Vibify -Music Website** *Live link*
Node.js, Express.js, React.js, Clerk, MongoDB, Gemini API, YouTube API

- Built a full-stack music streaming platform inspired by Spotify using Node.js, Express, and React.js.
- Integrated Clerk for seamless user authentication and session management.
- Enabled real-time chat messaging and live online user tracking using Zustand for state management.
- Used Gemini API and YouTube Data API to provide AI-powered music search and recommendations.
- Designed a dynamic, responsive frontend for smooth user interaction and media playback.
- Managed song data and user activity with a MongoDB database. Focused on performance, scalability, and clean UI/UX for an engaging user experience.

Twitter-Clone *Github*
Node.js, Express.js, React.js, TanStack Query, MongoDB, DaisyUI, Tailwind CSS

- Developed a Twitter-like app using Node.js, Express.js, React.js, and MongoDB..
- Implemented core features: tweeting, liking, replying, and user profiles with efficient data handling using TanStack Query.
- Designed a responsive UI using DaisyUI with Tailwind CSS for a clean and modern look.

DSA and Coursework

- Solved 500+ problems on LeetCode focusing on Data Structures and Algorithms — *Leetcode*
- Achieved 3-star rating (Max: 1627) Regularly participate in contests — *CodeChef*
- Reached a highest rating of 1246 — *Codeforces*

Technologies

Languages: C++, Java, JavaScript, Python

Technologies: Node.js, Express.js, HTML, CSS, ReactJS

Tools: Git, GitHub, VS Code, Postman

Coursework: OOPS, Data Structures Algorithms, Software Engineering, Operating Systems (ongoing), Database Management Systems (ongoing), Computer Networks, Discrete Mathematics.

Awards and Achievements

- Secured 3rd position among 250+ teams in coding competition at DIT Pimpri
- Finalist in SE Hackathon at Cummins College (sponsored by Mastercard, 200+ teams)

- JEE Advanced 2023: Qualified with All India Rank 11,980
- JEE Mains 2023: Scored 97.7 percentile (Mathematics, Physics, Chemistry)
- MHT-CET 2023: Achieved 99.558 percentile (Top ranks in Maharashtra)